

SECTION 16330
TRANSFORMERS

PART 1 - GENERAL

- 1.1 Provide dry-type transformers as shown to step the main incoming service voltage down to the utilization voltage required for lighting, small motor and other loads as shown.

PART 2 - PRODUCTS

2.1 TRANSFORMERS

- A. Transformers shall be NEMA TP-1, minimum, self-cooled, dry type, single or three phase as indicated. Primary and secondary voltages, and KVA ratings shall be as indicated. Insulation shall be 600 volt class "H", except transformers rated 112.5 KVA and above shall have 600 volt class "F" (155°) insulation. Transformers shall be rated for 115 degrees centigrade rise. Transformer shall be quiet type with noise level 3 dB below NEMA ST-20. Transformer shall have two 2 1/2 percent taps above and four 2 1/2 percent taps below normal rated voltage.

PART 3 - EXECUTION

3.1 TRANSFORMERS

- A. Mount transformers on suitable vibration isolating foundations or support brackets and provide short lengths of flexible metallic conduit in all connections thereto to prevent transmission of transformer hum to building structure and to conduit systems. Provide 3-1/2" thick concrete housekeeping pad on which to place all floor mounted transformers. The pad shall extend a minimum of 3" beyond the transformer on all sides. Transformers rated through 45 KVA shall be located at least 4" away from walls or obstructions to allow free circulation of air through the ventilation openings. For units above 45 KVA minimum spacing shall be 6 inches.

3.2 TRANSFORMER TESTS

- A. Perform the standard, not optional, tests in accordance with the Inspection and Test Procedures for transformers, dry type, air-cooled, 600 volt and below; as specified in NETA ATS. Measure primary and secondary voltages for proper tap settings. Tests need not be performed by a recognized independent testing firm or independent electrical consulting firm.

END OF TRANSFORMERS